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### **ABSTRACT**

This brief report describes six 2- to 3-day specialized workshops conducted at Texas Tech University and Stephen F. Austin University campuses for 121 secondary agriscience teachers. The workshops provided teachers with instruction and materials to assist them in teaching the new 100, 200, and 300 level semester courses. Topics were as follows: introduction to world agricultural science and technology; equine science; animal science; floral design and interior landscape development; wildlife, recreational management, and hunter safety; and aquaculture. The essential elements developed for the specific high school course addressed in each workshop were taught. Overall, teachers who participated in the workshops rated them as being excellent. The four-page report is followed by these appendixes: evaluation instrument; table showing teacher ratings and participants' comments and suggested improvements for each workshop; and the packet of materials sent to teachers with information about the workshops. (YLB)

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### FINAL REPORT

### ON

### SPECIALIZED WORKSHOPS

### ON THE AGRICULTURAL SCIENCE AND TECHNOLOGY CURRICULUM FOR SECONDARY AGRICULTURAL SCIENCE TEACHERS

Project Director: Dr. Lewis Eggenberger

Sponsored Cooperatively by

Texas Education Agency and Texas Tech University

July 15, 1992

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### **Table of Contents**

	Page
Title Page	1
Problem area toward which the project was directed	2
Goals and objectives of the workshops	2
General project design and procedures followed	2
Results and accomplishments of the project	2
Evaluation procedures and findings	2
Conclusions, implications, and recommendations for the future	4
APPENDIX A	5
APPENDIX B	8
APPENDIX C	12



### Tables and illustrations

		Page
Table 1.	The workshops conducted, the faculty members responsible for the instruction, and enrollment	3
Table 2.	Effectiveness of each workshop	9



### Title Page

Six 2 to 3 day specialized workshops were conducted at Texas Tech University and Stephen F. Austin campuses during the month of June for secondary AgriScience Teachers. The workshops contributed to the improvement of the agricultural science program as the teachers were provided instruction and materials to assist them in teaching the new 100, 200, and 300 level semester courses. The essential elements developed for the specific high school course addressed in each workshop were taught.

The project reported herein was performed through a contract with the Texas Education Agency under the provisions of Carl D. Perkins Vocational Education Act (Public Law 98-524). Contractees undertaking such projects are encouraged to express freely their professional judgement in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Texas Education Agency position or policy.



a) Problem area toward which the project was directed.

The secondary school agriscience teachers needed additional competencies in teaching the semester courses. Due to time and scheduling restraints six workshops were conducted. The workshops selected were based on input from TEA State Staff and a teacher advisory committeee. The teachers needs in specific areas where teachers lacked competencies to start teaching a course and the availability of instructors at Texas Tech University and Stephen F. Austin University was considered.

- b) Goals and objectives of the workshops.
  - 1) To provide in-service training through workshops ranging from 6 to 18 hours in length that will enable Agriscience teachers to teach the Agriscience curriculum.
  - 2) To clemonstrate and acquire techniques of instruction adaptable to teaching the new agricultural science and technology curriculum, including elimination of sex bias and program modification and/or teaching techniques for handicapped and disadvantaged students.
  - 3) The competencies gained by the teachers will be imparted to their students to prepare the students for careers in agriscience occupations.
  - 4) The instruction will assist teachers in integrating basic math, science, communication, and computer usage skills in the agricultural science and technology curriculum.
- c) General project design and procedures followed.

The workshops were developed to teach the essential elements teachers of agricultural science need in teaching the semester courses. The workshops conducted and the faculty members responsible for the instruction are listed in Table 1.

Each of 1,065 agirscience teachers in Texas was mailed information concerning the dates of the workshops. The deadline for registration, information that would be included in each workshop and the name and qualifications of each professor conducting a workshop was mailed. (See Appendix C, packet of materials dated May 1, 1992)

Agriscience teachers who registered for a workshop were mailed information concerning the time, parking on campus, housing, clothing, and fees. (See Appendix C, packet of materials dated May 27, 1992)

Numerous teaching methods were used depending on the type of material being taught in each workshop and the instructor's preference. Discussion, lecture, demonstrations, hands-on activities, and field trips were used in the various workshops. As an example, the teachers in the Equine Science and Animal Science workshops took field trips to the Texas Tech farm east of New Deal to obtain instruction with live animals. In the Floral Design and Interior Landscape Development workshop, the teachers had the opportunity for hands-on activities in the Texas Tech greenhouses.

d) Results and accomplishments of the project.

The workshops were successful in preparing the teachers to teach the essential elements in the agriscience courses addressed in each of the workshops. The teacher evaluations of the workshop were excellent based on the final evaluations secured at the conclusion of each workshop.

e) Evaluation procedures and findings.

The teachers evaluated each workshop at the conclusion of the specific workshop. (See Appendix A.) The results of the evaluation are attached. (See Appendix B.)



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Table I.

The Workshops Conducted, the Faculty Members

## Responsible for Instruction

Date	Instructor(s)A	Ag. Sc. Course No.	Enrollment	Workshop Title
June 3-4	Dr. Robert Terry, Jr.	101	15	Introduction to World Agricultural Science and Technology
June 15-16	Professor John Pipkin	334	23	Equine Science
June 17-18	Professor Sam Jackson	332	28	Animal Science
June 25-26	Professor Cynthia McKenney	363 & 361	<del>4</del>	Fioral Design and Interior Landscape Development
June 29-30, July 1	Steve Demarias and personnel from Texas Parks and Wildlife Dept.	381	27	Wikilife, Recreational Managemer and Hunter Safety
June 29-30	Dr. Dale Perritt and Billy Higginbotham	Anticipated Course	17	Aquaculture
		Total	121	

<u>r</u>

f) Conclusions, implications, and recommendations for the future.

The teachers were asked to rate the effectiveness of the workshop they attended by rating certain factors on a scale of 1 to 5 with 5 being the most effective. (See Appendix B, Table 2) In analyzing this data, it is determined that additional use of visual aids were desired by the participants in Wildlife and Recreational Management and Animal Science. Additional handouts were desired in the workshop on Floral Design and Interior Landscape Development. Overall, the evaluations were excellent as the remaining ratings were above 4.0 on the point scale.

Included in Appendix B are comments and suggested improvements for each workshop by the participants.

The workshops were a tremendous success with numerous favorable verbal comments made by the teachers which are not included in this report. Also, as a result of this project, the 121 participants were able to obtain additional knowledge and skill to teach the essential elements in six different semester agricultural-science courses.

One concern is the number of agriscience teachers who register for a workshop and do not attend. This causes a problem in planning as the number of copies or amount of supplies for each workshop cannot be accurately determined.



APPENDIX A



### Evaluation of 1992 Agriscience Workshops

### Sponsored By Texas Education Agency and Texas Tech University

I.	Nan	Name									
	Sch	ool									
	Wo	rkshop Attended									
II.	Plea	ase circle the number indicating the overa	ll effectiven	ess of e	each of t	he follo	wing items				
	Also the	o, in the space provided for comments in workshop instructional program concerni	dicate what ing each iter	you <u>lik</u> n.	ed and v	what wo	ould <u>improv</u>				
	A.	Teaching methods used Comments:	High 5	4	3	2	Low 1				
	В.	Expertise of the instructor(s) Comments:	5	4	3	2	1				
	C.	Use of visual aids Comments:	5	4	3	2	1				
	D.	Adequacy of hand-out materials	5	4	3	2	1				



	E.	Adequacy of facilities and supplies Comments:	5	4	3	2	1
	F.	Appropriateness of teaching material as related to your high school program Comments:	5	4	3	2	1
III.	Wou	ıld you attend another workshop that was tau	ght like	this wo	rkshop?		
			Yes_		No		
	If ye	es, why?					
	If no	o, why?					

Other suggestions that will assist in improving workshops in the future: (Including improvements in registration procedures, housing or parking). Please use the back if needed.



APPENDIX B



Table 2

# Effectiveness of Each Workshop

Title of Workshop	Teaching Methods Used	Expertise of Instructor	Use of Visual Aids	Adequacy of Hand-outs	Adequacy of Facilities and Supplies	Appropriateness of Teaching Materials
Introduction to World Ag Science & Technology	6.4	6.4	4.7	5.0	4.7	8.4
Equine Science	4.5	4.8	4.6	4.2	4.7	4.6
Animal Science	4.5	4.7	හ. භ	4.4	4.7	4.7
Floral Design and Interior and Landscape Development	4.7	5.0	<b>4</b> .	3.8	9.4	£.3
Wildlife and Recreational Management	4.	6.4	3.6	<b>4</b> 6.	4.8	4.7
Aquaculture	4.8	<b>4</b> .0	8.	4.9	6.4	4.7

\*All of the scores listed above are mean values of the scores received from the evaluations that the Agricultural Science teachers gave of the workshops (5 being the high effectiveness and 1 being low effectiveness).

\*\*All participants would attend another workshop that was taught like the workshop attended, with the exception that three participants stated they would not attend another workshop taught like Wildlife & Recreational Management.

### Comments by Agriscience Teachers

### 1. Introduction to World Agricultural Science and Technology

- I learned some new ideas that I can actually use. This is the fourth 101 workshop I have attended and by far the most useful.
- \* Tech is closer to teachers in this area. All workshops I have attended have been very educational and helpful in my teaching.
- \* Actual examples and demonstrating ideas to use in classroom. Not just a lecture format. Could use even more ideas.
- \* I learned many skills that I can use in the upcoming school year.
- Excellent source of new ideas.
- \* Interesting and useful, varied activities.
- \* This workshop was very up to date and showed new methods of teaching the material.
- Methods used were interesting and it provided some innovated ideas for teachers 101.
- I enjoyed the informal atmosphere and the down to earth interest of the teachers participating in workshop.
- \* Gave me some innovative ideas to use, gave me more of an insight as to how to teach 101.
- Excellent instructor, materials, references.
- \* Interesting, fun, enjoyable, learned alot.
- \* It was very informative and had several practical applications to teaching 101.
- \* This has been probably the most <u>useful</u> workshop I have attended. I liked the participation activities, videos available, and handouts. I have more practical information to take back to my school than most workshops offer. Dr. Terry did an excellent job organizing and presenting the workshop.

### 2. Equine Science

- \* The workshops are well-organized. The materials are pertinent to subject matter. The instructors are very knowledgable.
- Very good hands-on.
- I enjoyed the "open forum" approach. The materials covered meets the individual needs of the program.
- \* Effective and useful info, can be incorporated in my classroom.
- \* Very informative, interesting and useful for use in my classroom.
- Excellent short course.
- \* The hands-on experience was excellent. John was also very knowledgable in his field.
- I gained information that will be useful for class use.
- \* The horse show and the field trip to the farm area were excellent ideas.
- Usable resources presented, hands-on activities, different points of view.
- Informal, straight to the point.
- Informal, very personal and able to relate to instructor.
- \* Very informative and out-of-class teaching was very appropriate.

### Animal Science

- \* Excellent, hands-on evaluation.
- \* Hands-on, excellent facilities at farm.
- \* Very organized, well-informed instructor.
- \* Information will help in selection of livestock.
- Good use of live animals.
- Practical applications, saw actual animals.
- \* Work at Tech farm was excellent.
- \* Excellent he did it right! It was taught at a high school ag teacher level!
- Instructor was very knowledgable in subject area and very open to any comments/suggestions.
- \* The areas covered are areas that are also covered in the high school Ag Science classes. The instructor is very good and knows what he is doing.



### 4. Floral Design and Interior Landscape Development

- Excellent information.
- \* Good for classroom activities and general knowledge needed.
- \* Very educational, helps catch up on what is new and improved.
- \* Information that you can definitely use in every day class and lab instruction.
- \* This workshop was <u>extremely</u> educational and helpful. Our instructor was very professional and provided info that was pertinent to classroom needs.
- \* Enjoyed the content and instructor very much.

### 5. Wildlife and Recreational Management

- \* The materials can be incorporated into my high school program.
- \* I learn more each time and take that back to students. Also, an interesting subject matter.
- \* This and other workshops help keep current information available for the curriculum taught in Ag Sciences courses.
- Informative and excellent handout material.
- \* Very useful and appropriate for the classroom.
- \* Interesting, applicable and enjoyable.
- \* The instructor's teaching methods of approach in 381 was excellent. He would head into the next subject very well and tie everything together.
- \* New outlook on presentation of materials.
- \* I enjoyed the instructor's teaching methods. I feel the workshop will help me tremendously in teaching my wildlife class.
- \* This workshop was very informative and gave lots of information that will aid in classroom instruction.
- \* Teaching methods or tools suggested to us to use, I had never thought of before. Also, I never had this type of info only the IMS.
- \* I appreciate all the examples used and all of the example teaching methods. You had some good ideas.
- \* The teaching suggestions were good and sparked a few ideas in my mind for others.
- \* It gave us very specific examples of management techniques and how to explain it to high school students.

### 6. Aquaculture

- \* It was a real good program in class and field trips.
- Very informative.
- \* Very educational and useful in the classroom.
- \* Help prepare me to do a better job of teaching Agriscience.
- \* Excellent material, excellent instructors, excellent field trips.
- New material, up-to-date information, new practices.
- \* This workshop was a great help in extending my knowledge of aquaculture.
- Practical field trips saw a lot of good applications for aquaculture operation.
- Well-informed instructor.



APPENDIX C





Department of Agricultural Education and Mechanization

Box +2131 Lubbock, TX =9409 2131 (806) =42 2816

May 1, 1992

To Agri-Science Teacher Addressed:

Improve your teaching and earn AAT credit by attending one or more of the workshops scheduled at Texas Tech University. You can earn a Wildlife Hunter Education Instructor Certificate by attending the AGSC 381 and Hunter Safety workshop. The Equine Science and Animal Science workshops are scheduled so you can attend both workshops on June 15 & 16 and June 17 & 18 and make only one trip to Lubbock. The instructors for the five workshops are all excellent Texas Tech professors who have the experience and educational background to conduct an outstanding workshop. Please refer to the following specific information concerning each instructor and what they plan to teach.

We will mail you specific in ormation concerning meals and lodging after we have received your registration for a workshop. All workshops will start at 9:00 a.m. the first day.

Sincerely,

Lewis Eggenberger

Professor

LE/lb



Texas Tech University Lubbock, Texas	1992 <u>Dates</u>	Number of days
AGSC 101 Introduction to World Agricultural Science and Technology (Innovative Ideas)	June 3-4	2
AGSC 334 Equine Science	June 15-16	2
AGSC 332 Animal Science	June 17-18	2
AGSC 363 Floral Design and Interior Landscape Development	June 25-26	2

If you plan to attend the Horticulture Workshop, please return the enclosed survey.

AGSC 381 and Hunter Safety. Wildlife and Recreational Management.

(Must attend all three days in order to obtain the Texas Parks and Wildlife Hunter Education Instructor Certificate)

June 29-30, 3 and July 1

DEADLINE FOR REGISTRATION: M. 15, 1992

TO REGISTER CONTACT:

Mary Lou Nava
Department of Agricultural Education
Texas Tech University
Box 42131
Lubbock, TX 79409
(806) 742-2816

AGSC 101 Introduction to World
Agricultural Science and Technology

June 3-4

This workshop is designed to help you teach Introduction to World Agricultural Science and Technology more effectively. Participants will develop and exchange ideas on delivering lessons and conducting activities related to Agriscience 101. Development of interactive computer programs related to the curriculum will be included.

Instructor: Rob Terry

- A. BS and MS in Agricultural Education Oklahoma State University Ph. D. in Agricultural Education Texas A&M University
- B. Rob has been teaching the course Transfer of Agricultural Technology and Agricultural Leadersh. Principles. In both of these courses he has used numerous innovative ideas to inspire the students to learn.
- C. Rob was a very successful agriscience teacher in Oklahoma. His experiences, as a teacher educator in California and Texas, have provided him the opportunity to observe innovative teaching. These observations qualify Rob to assist you in improving your teaching of AGSC 101.



AGSC 334 Equine Science

### June 15-16

Based upon a recent survey of specific interests by agriscience teachers who plan to attend this years workshop, a substantial amount of time will be devoted to the Selection and Evaluation of horses. Other subjects to be discussed will include: handling; care and riding horses; equine nutrition; equine reproduction; health of the horse; and careers in the horse industry.

Instructor: John Pipkin

- A. John holds a BS and MS degrees in Animal Science (will complete Ph. D. by August).
- B. John teaches six courses in Equine Science, is Director of the Texas Tech Horse Unit, and coaches the Tech Horse Judging and Equestrian Teams.
- C. John assisted with conducting seminars for the Texas Agricultural Extension Service for over nine years; and has worked in the Horse Industry, training horses professionally for two years and serving as Director of Granada Equine Services for a year; and judges shows professionally.
- D. John conducted Equine Science Workshops for agriscience teachers in 1988 and 1989.

### AGSC 332 Animal Science

June 17-18

Topics that will be discussed:

- 1) Selection of cattle, swine, and sheep using appropriate performance data and visual appraisal for each species.
- 2) Evaluation, grading, and selection of slaughter animals.
- 3) Sheep management including genetics, reproduction, nutrition, and wool evaluation and grading.
- 4) Training students to present oral reasons and answer questions.

Instructor: Sam Jackson

- A. BS in Animal Science Texas Tech University
  MS in Physiology of Reproduction Texas A&M University
  Doctoral student in Animal Science Texas Tech University
- B. Sam is an instructor in Sheep Production, Introductory Animal Science and Live Animal Evaluation.
- C Sam is the livestock judging team coach that has had excellent success.
  - 1. Champion Team National Livestock Show 1990
  - 2. Champion Team National Western Livestock Show 1990
  - 3. Champion Team Southwestern Exposition and Stock Show 1990
  - 4. Third place Houston Livestock Show and Rodeo 1990
  - 5. Fourth place Arizona National 1990
- D. Sam has had practical ranching experience and has been involved in managing herds and flocks at the Texas Tech livestock center as a student and faculty member.



Please return the enclosed survey sheet if you plan to attend the Horticulture Workshop.

AGSC 363 Floral Design and

June 25-26

Interior Landscape Development (May include some AGSC 361 if enough interest)

Instructor:

Cynthia McKenney

A. BS & MS in Ornamental Horticulture - Texas Tech University

B. Cynthia has taught eight different horticulture courses at Texas Tech during the past eight years.

C Greenhouse manager at Texas Tech.

- D. Cynthia has worked as a greenhouse/tropicals manager at a large nursery and has done interiorscaping in malls, airports, hotels and private residences. E. Cynthia has taught other 2 or 3 day workshops in the past five years and taught
- the Ornamental Horticulture Certification Workshop one summer.

AGSC 381 and Hunter Safety Wildlife and Recreational Management June 29-30. July 1

This workshop will relate to the essential elements in AGSC 381. As a result of past evaluations, the instructor will organize the instruction so you as an agriscience teacher can best teach this subject to your students. Also, the instructor will suggest certain student projects that will enhance the student's interest in wildlife and recreational management.

As a participant in the three day workshop, you will earn a Wildlife Hunter Education Instructor Certificate.

Instructors: Steve Demarais and Personnel from the Texas Parks and Wildlife Department

- A. Steve Demarais has a BS in Wildlife Biology from the University of Massachusetts. MS - Wildlife Ecology - Mississippi State University Ph. D. - Forest Resources - Mississippi State University
- B. Steve teaches Introductory Wildlife Management, Wildlife Physiological Ecology and Big Game Management.
- C Steve's research centers on ecology and management of big game species.
- D. Steve sponsors the Wildlife Quiz bowl team and the Range and Wildlife Club.
- E. Steve was chairman of the Youth Activities Committee for the Texas Section of the Society for Range Management in 1990.



If you plan to attend the Horticulture Workshop, please return this survey so the workshop can be planned based on the interest of participants.

### Mail to:

Mary Lou Nava Agricultural Education Dept. Box 42131 Texas Tech University Lubbock, TX 79409

### Interest

(Circle your answer; 1=highest, 5=lowest)

### **TOPICS POSSIBLE 363**

### **INTERIOR PLANTS:**

Design Basics	1	2	3	4	5
Plant Selection & Use	1	2	3	4	5
Plant Identification	1	2	3	4	5
Plant Growth & Culture	1	2	3	4.	5
Plant Maintenance	1	2	3	4	5
Installation	1	2	3	4	5
Contracts	1	2	3	4	5
Environmental Concerns	1	2	3	4	5
(Light, Media, Nutrition, Temp, Water)					
Pest & Disease Control	1	2	3	4	5

### **FLORAL DESIGN:**

Plant Identification	1	2	3	4	5
Floral Design Principles	1	2	3	4	5
Color Harmony	1	2	3	4	5
Cut Flower Storage	1	2	3	4	5
Bow Tieing	1	2	3	4	5

### **TOPICS POSSIBLE 361**

Use of Plants in the Landscape	1	2	3	4	5
Site Analysis	1	2	3	4	5
Elementary Design Principles	1	2	3	4	5
Plant Identification	1	2	3	4	5
Installation	1	2	3	4	5
Watering	1	2	3	4	5
Pruning	1	2	3	4	5
Turf Management	1	2	3	4	5
Turf Selection	1	2	3	4	5





Department of Agricultural Education and Mechanization

Box 42131 Lubbock, TX 79409-2131 (806) 742-2816

### May 27, 1992

TO:

Agriscience Teachers Who Have Registered to Attend a Workshop(s) at Texas Tech University

FROM:

Lewis Eggenberger, Project Director

(806) 742-2816

RE:

Workshop Information

Please be conscientious in attending the workshop(s) you registered for as supplies and teaching materials are purchased based on advanced registrations. Call (806) 742-2816 if your plans have changed and you cannot attend a workshop or workshops.

The workshop(s) you indicated you would attend are marked with an (x).

<u></u>	Date	Course Number	Workshop	Room/Building
<u>:</u>	June 3-4	101	Introduction to World Ag Science and Technology	206/Ag Ed & Mech
	June 15-16	334	Equine Science	100/Meats Laboratory
	June 17-18	332	Animal Science	100/Meats Laboratory
	June 25-26	363	Floral Design & Interior Landscape Development	University Greenhouse
	June 29, 30 and July 1	381	Wildlife & Recreational Management and Hunter Safety Instructor Certification (You must attend all 3 days of the workshop to receive your certification)	100/Meats Laboratory

This form should not be returned.



### **TEXAS TECH HOUSING**

Room and board will be available through the month of June and July 1 for those attending the workshops.

Check in at the Chitwood and Weymouth Residence Halls. Parking lots are available near the halls (RH-4 on map). A parking permit can be obtained upon checking in at the residence halls.

If additional information is needed, you can contact Lequice Lasater (Assistant Director of Housing) at 806/742-2661.

### Cost Per Day

Single Occupancy			Double Occupancy				
\$19.00		Room Only	\$14.00 (will need n	Room Only name of roommate)			
\$12.24		3 meals (all you can eat)	\$12.24	3 meals (all you can eat)			
\$31.24		Total Package	\$26.24	Total Package			

### Maid Service and Linens Included

You can purchase meal tickets separate. (Tickets are available on first come first serve basis).



Time:

9:00 a.m.

Participants will report at 2:00 a.m. the first day of the workshop.

Parking:

The AGSC 101 workshop will be taught in Room 206 in the Agricultural Education & Mechanization building. Stop at an Entry Station to obtain a visitor's pass and the attendant will direct you to the closest parking place.

Those attending the Equine Science, Animal Science and the Wildlife and Hunter Safety Workshop will park in lot C-6 south of the Livestock Arena and Meats Laboratory. These workshops will be taught in room 100 of the Meats Laboratory.

The Horticulture workshop is scheduled at the University Greenhouse, which is west of the Central Heating and Cooling Plant. Park in lot C-4.

Important: Do not park in any area on campus without obtaining a "Visitor's Pass" from the closest entry station. The visitor's pass properly displayed on the vehicle dash allows you to park in the Band Practice lot, any dormitory hall lot, commuter lot or visitor's space on campus.

Do not park in any "Reserved" parking spaces on campus. Your vehicle is subject to be towed if you park in a reserved space.

Housing:

A sheet indicating room and board on campus is enclosed. Numerous motels are available in Lubbock. Call the Lubbock Conventions and Visitors Bureau at (806) 747-5232 for information concerning these motels.

Clothing: Wear clothing appropriate for the workshop(s) you are attending.

Fees:

There is no registration fee for any of the workshops. A fee of \$5.00 is required by the Texas Parks and Wildlife Department for the Hunter Safety Instructor Certificate

If you plan to enroll for 3 or 6 hours of graduate credit Individual Study courses, please bring your checkbook. The total fees for 3 credit hours is \$95.00 and for 6 credit hours is \$188.00, which is based on Texas Residence Fees. If it is your first time to register as a graduate student, there is an additional \$25.00 registration fee. To earn 3 credit hours, you would attend one workshop, develop individual lesson plans, and select or develop visual aids for the workshop subject which you attended. If you attend more than one workshop, you can register for a maximum of 6 credit hours completing the assignment for 2 workshops.

Enclosure





